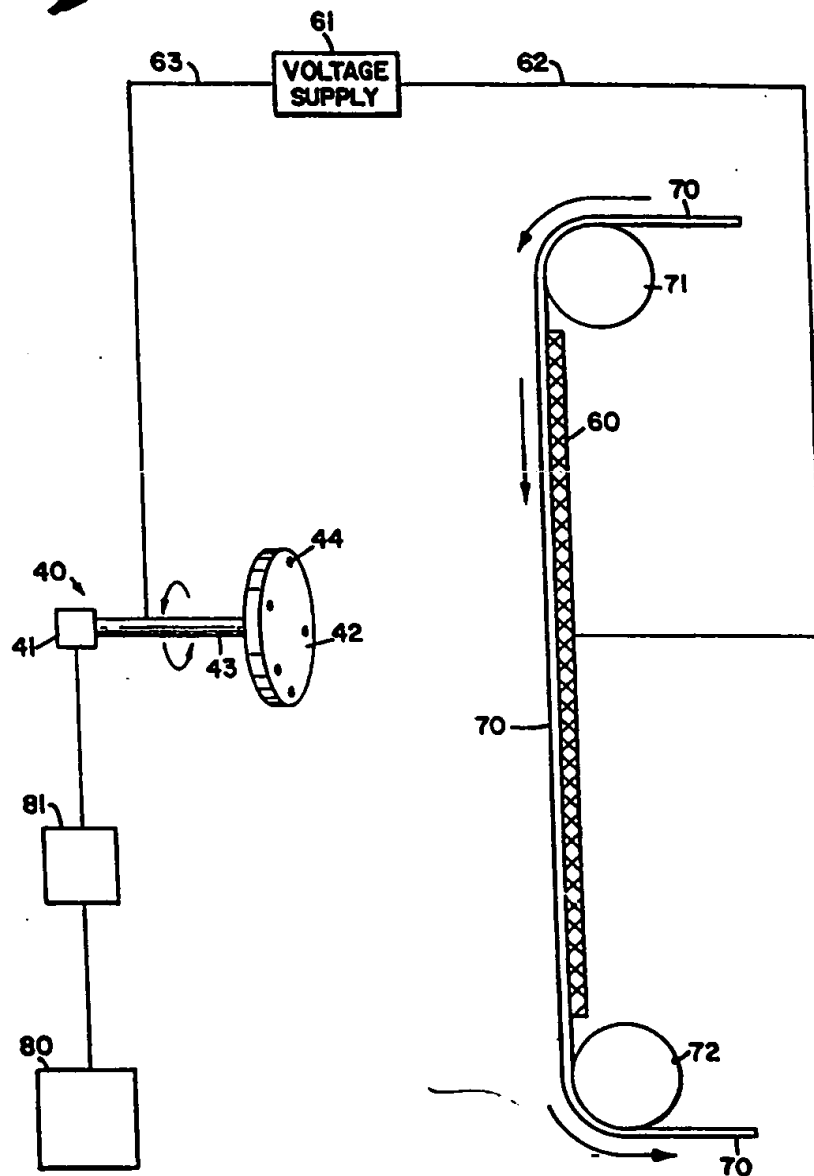


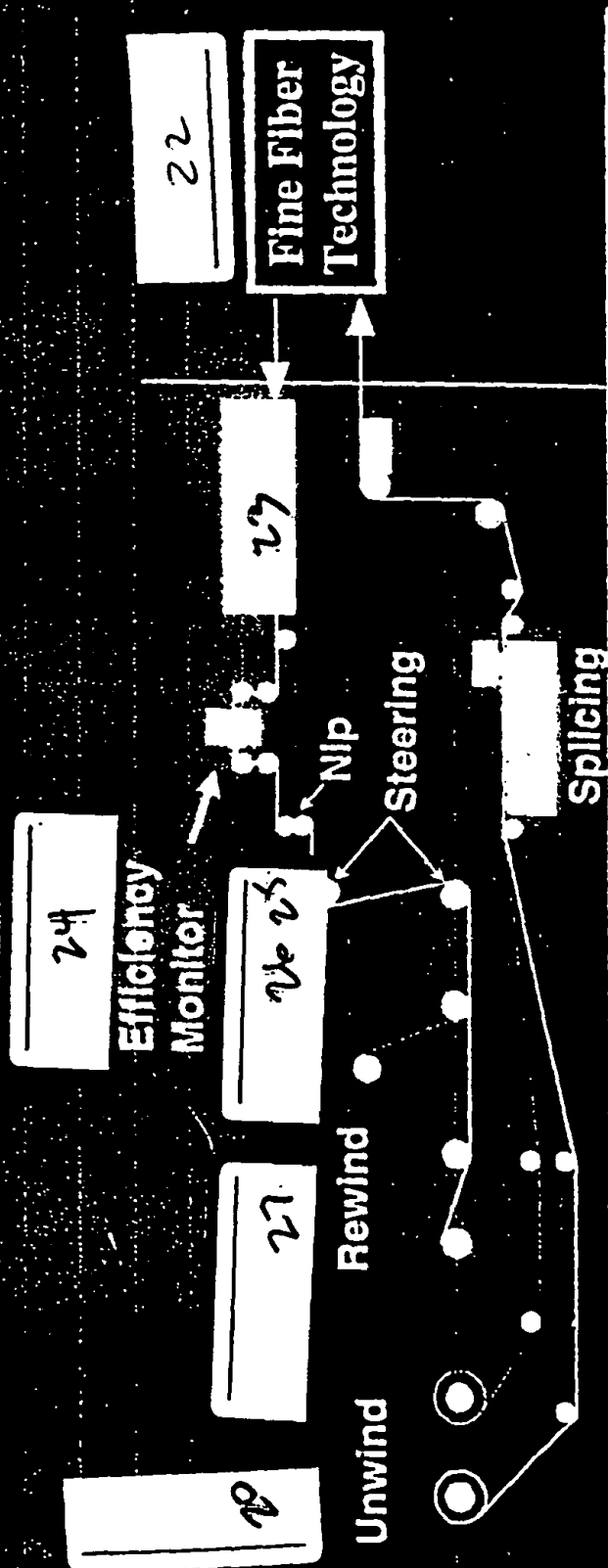
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FIG. 1



09871169-053101

# Fine Fiber Technology



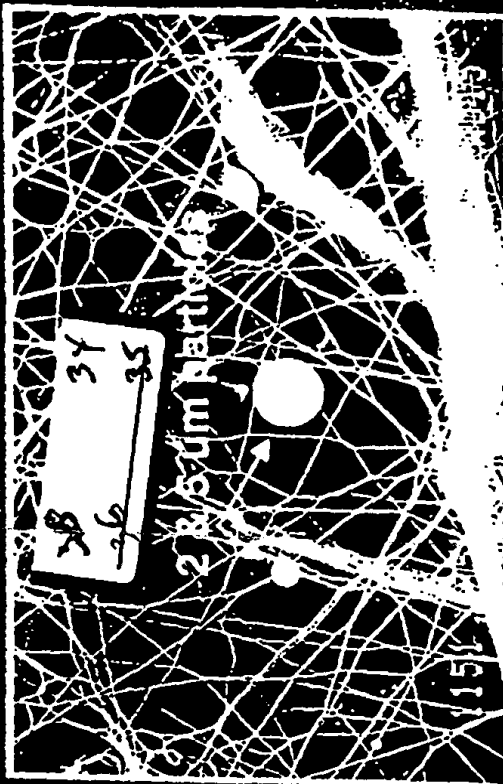
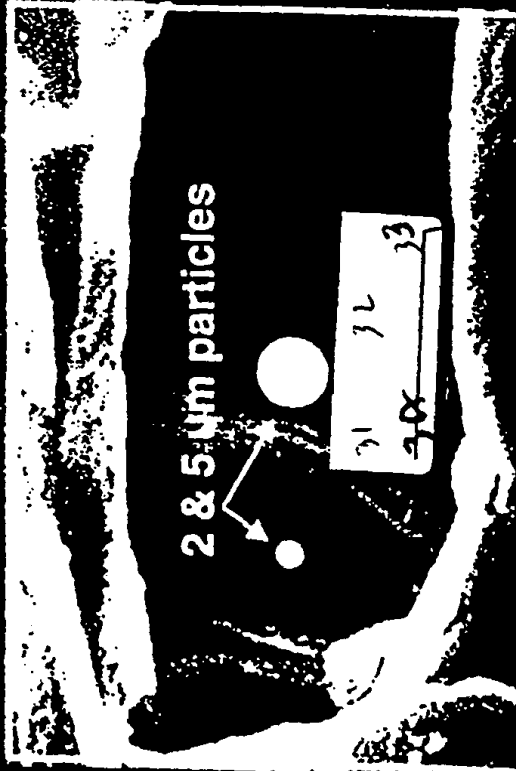
Donaldson  
T.M. Weik  
8 Dec 95

24

28

# Cellulose Media

# Ultra-Web®



2,000 X Scanning Electron Microscope Images

ALC

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Katz Analytical Services, Inc.  
1191-20C-3, Sample #: 1, Angle: 65

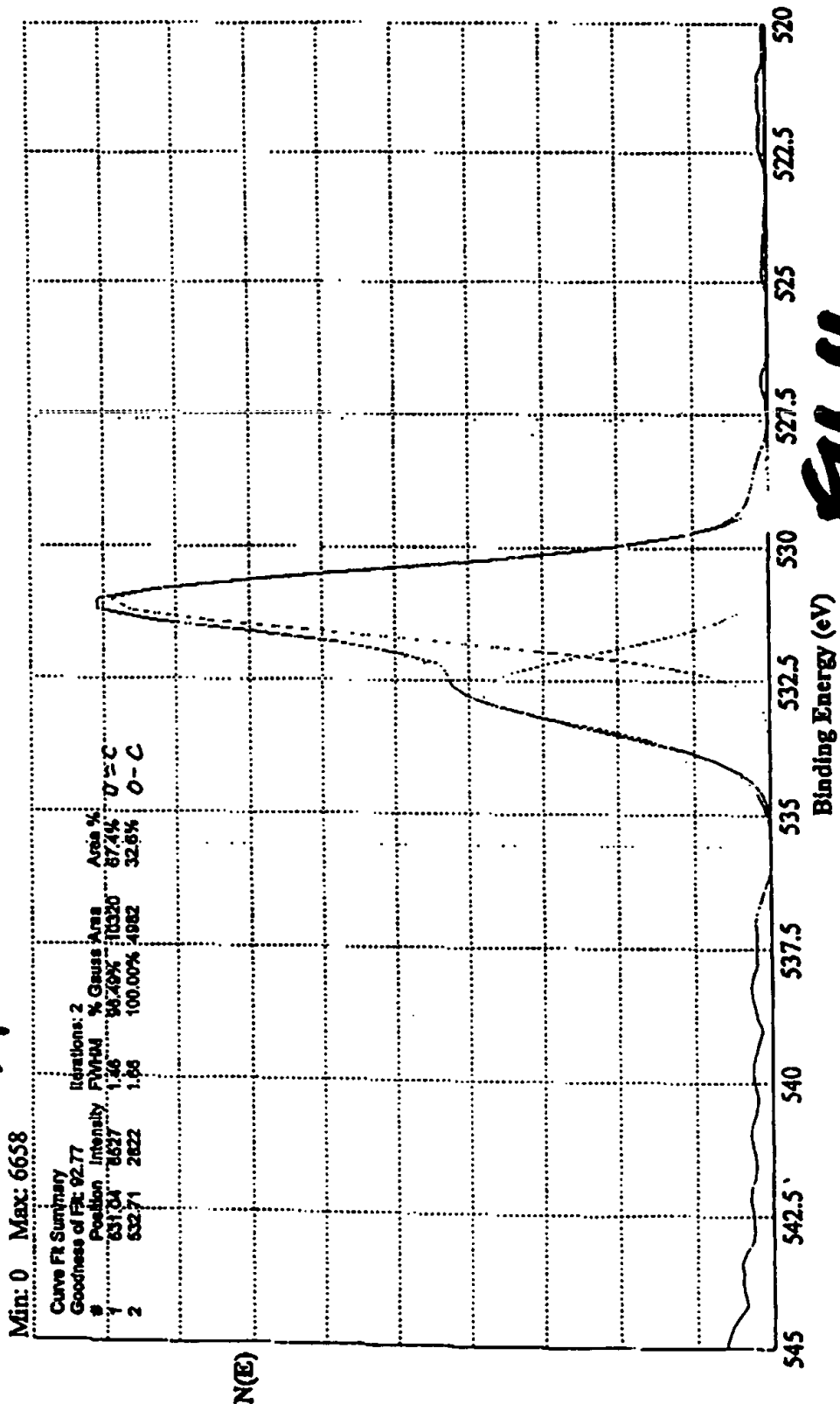
XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 4. ESCA O 1s Spectra for Sample As Scan 6A



File 4

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**Katz Analytical Services, Inc.**  
**1191-20C-4, Sample #: 1, Angle: 65**

## XPS Multiplex

**013**

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12  
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig. 3. ESCA O 1s Spectra for Heat-Treated Sample 6A

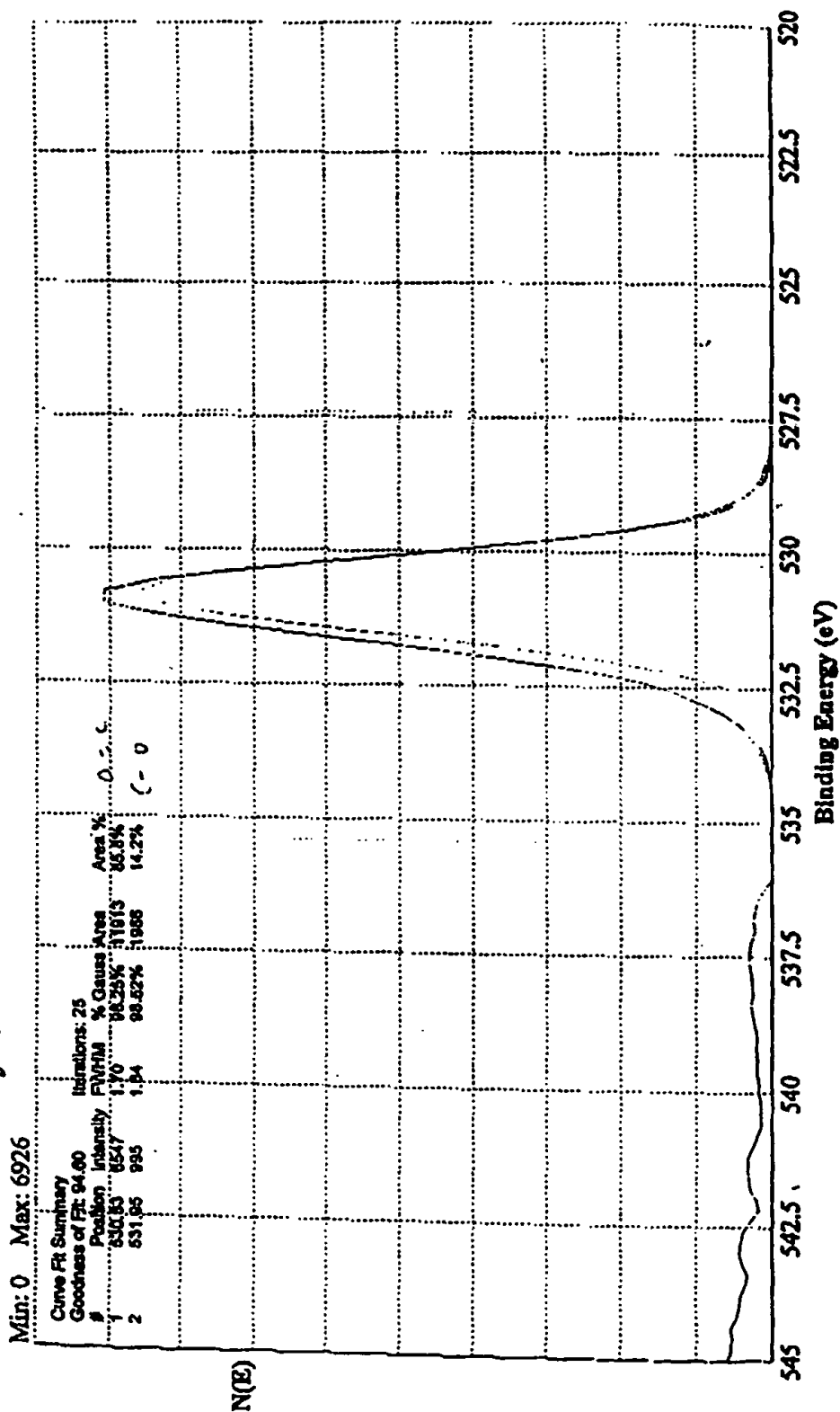
Min: 0 Max: 6926

Curve Fit Summary				
Goodness of Fit: 94.00				
#	Position	Intensity	FWHM	% Gauss Area
1	530.63	4547	1.70	98.25%
2	531.95	995	1.34	98.62%
			17613	45.84%
			19865	14.2%

DONALDSON COMPANY INC

**AUG-17-2000 08:37**

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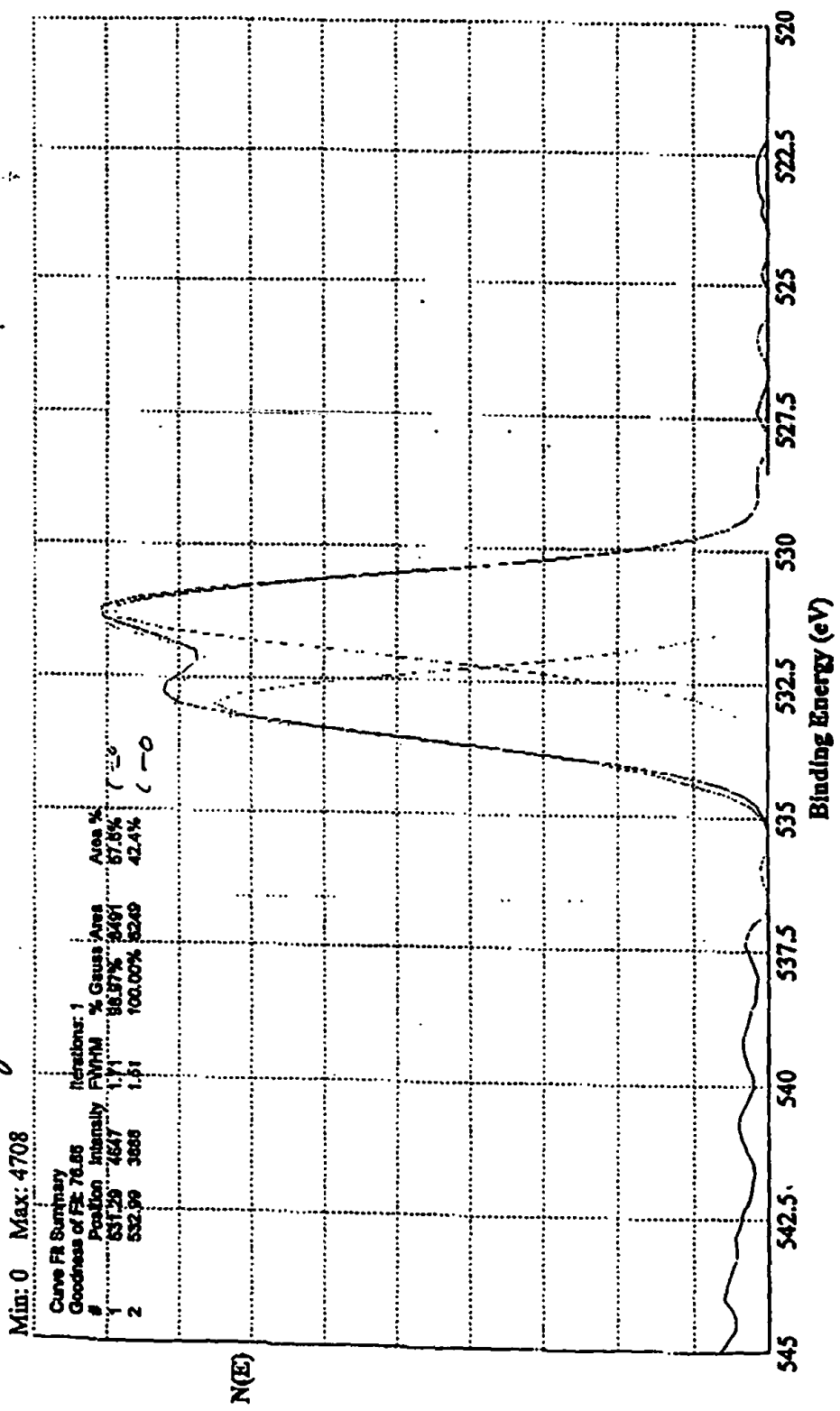


Katz Analytical Services, Inc.  
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex  
O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12  
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig. B, ESCA O 1s Spectra for As-Span Example



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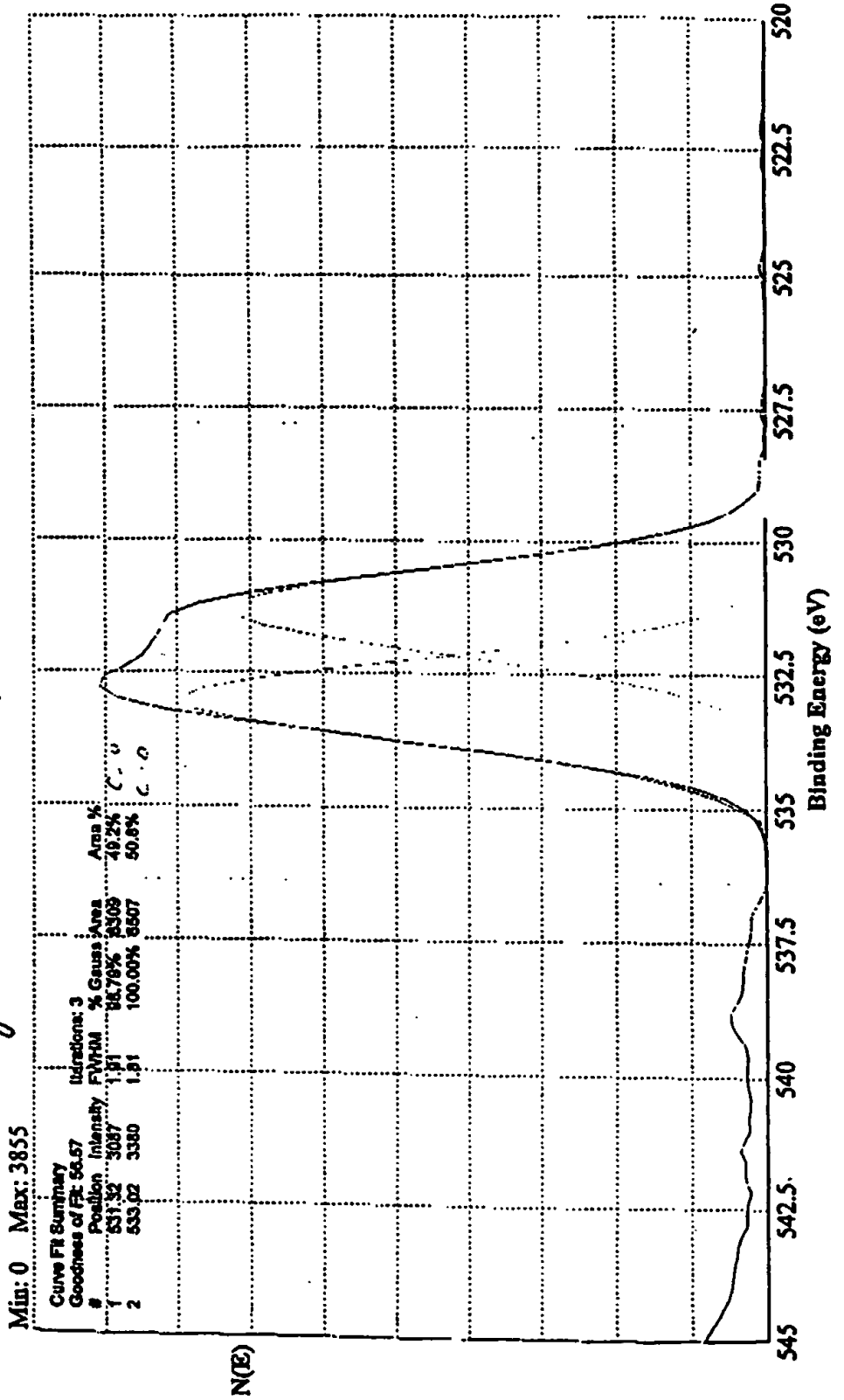
Katz Analytical Services, Inc.  
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 16  
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

*Fig 2 ESCA O1s Spectra for Heat-Treated Sample*  
*6B*



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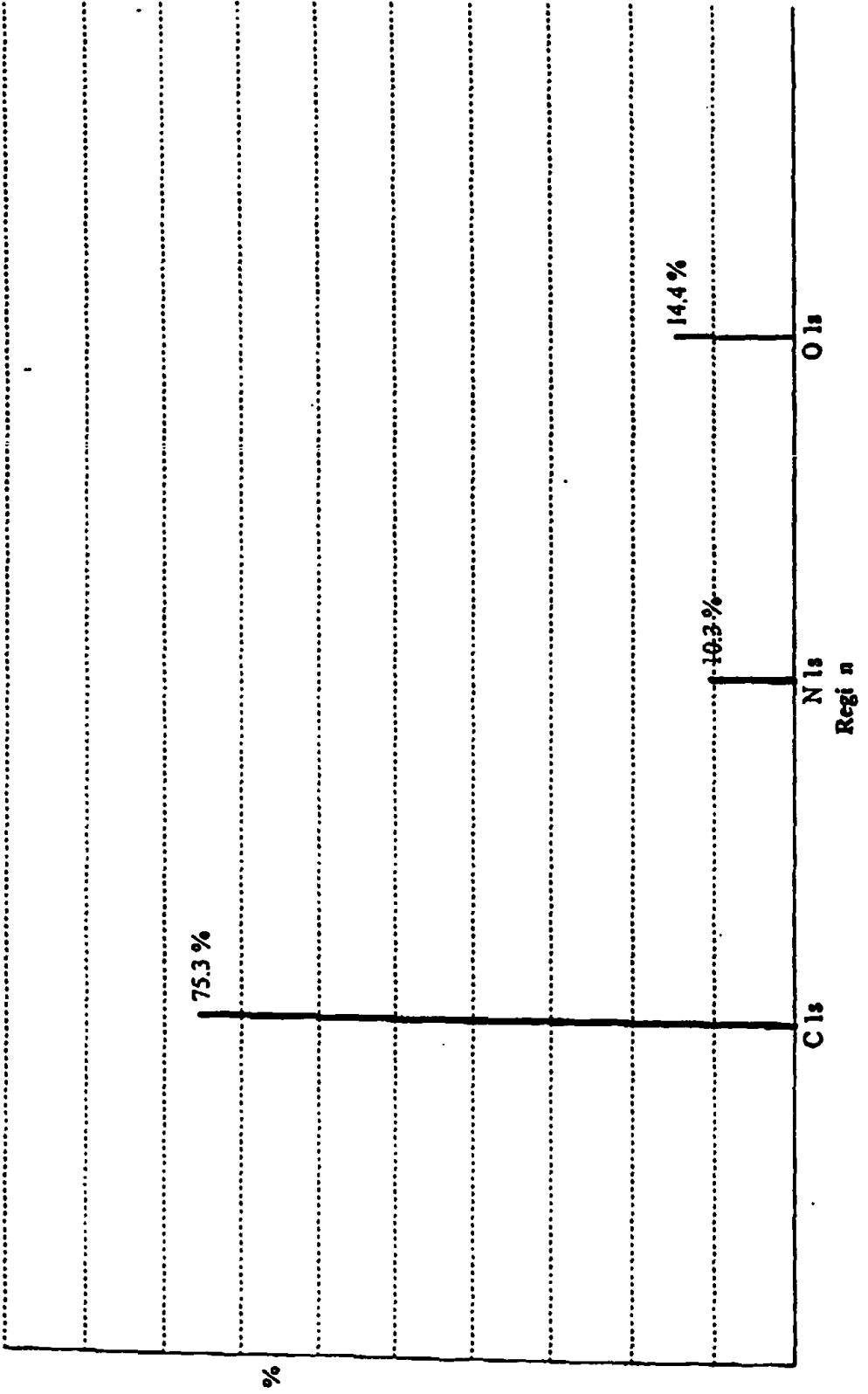
Katz Analytical Services, Inc.  
1191-20C-3, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 8. ESCA Multiplex for As-Spun Sample 6A

Min: 0 Max: 100



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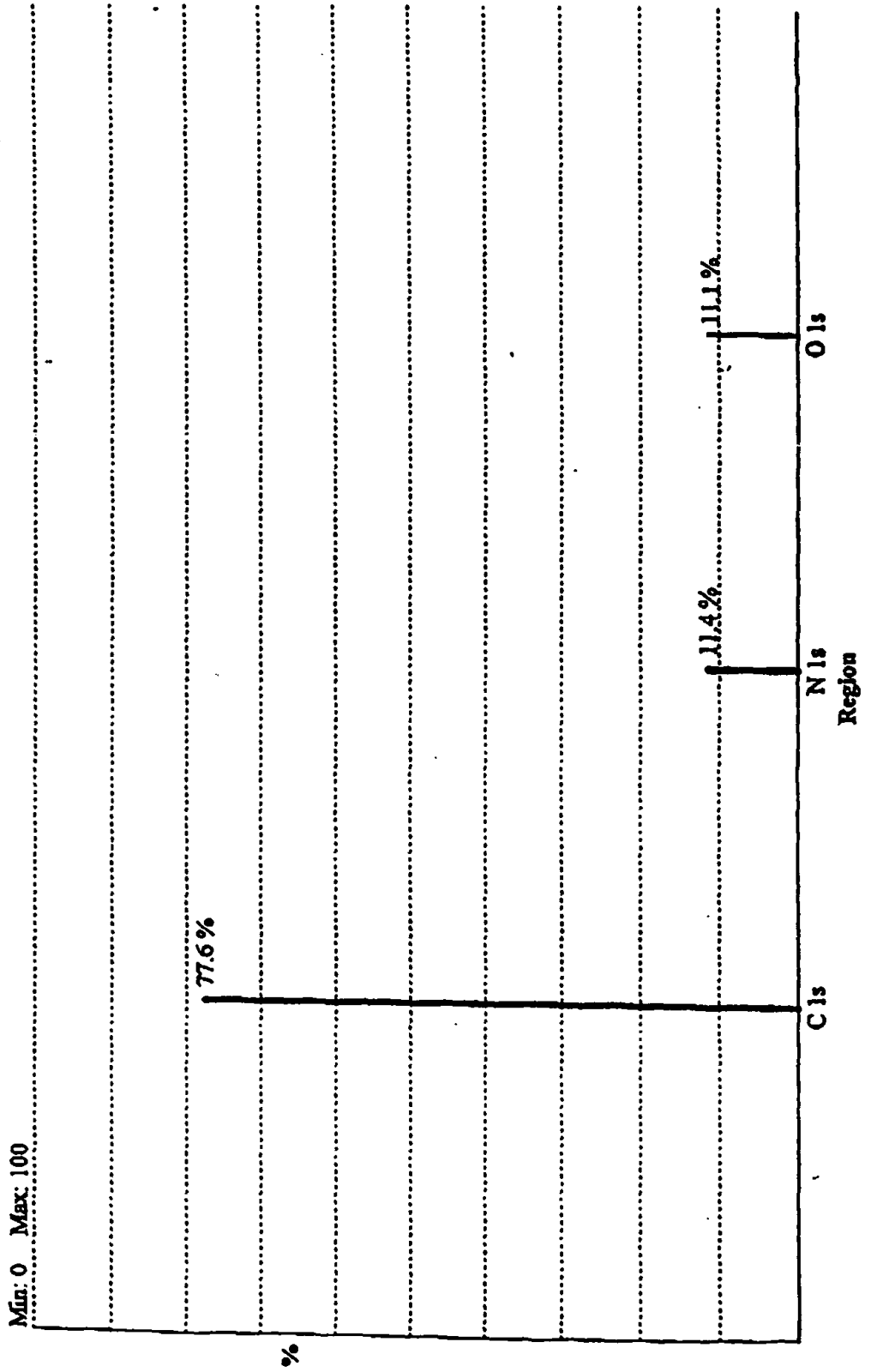
FOFES0" 69TFZ850

Katz Analytical Services, Inc.  
1191-20C-4, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

*Fig 9. ESCA Multiplex for Heat Treated Sample 6A*



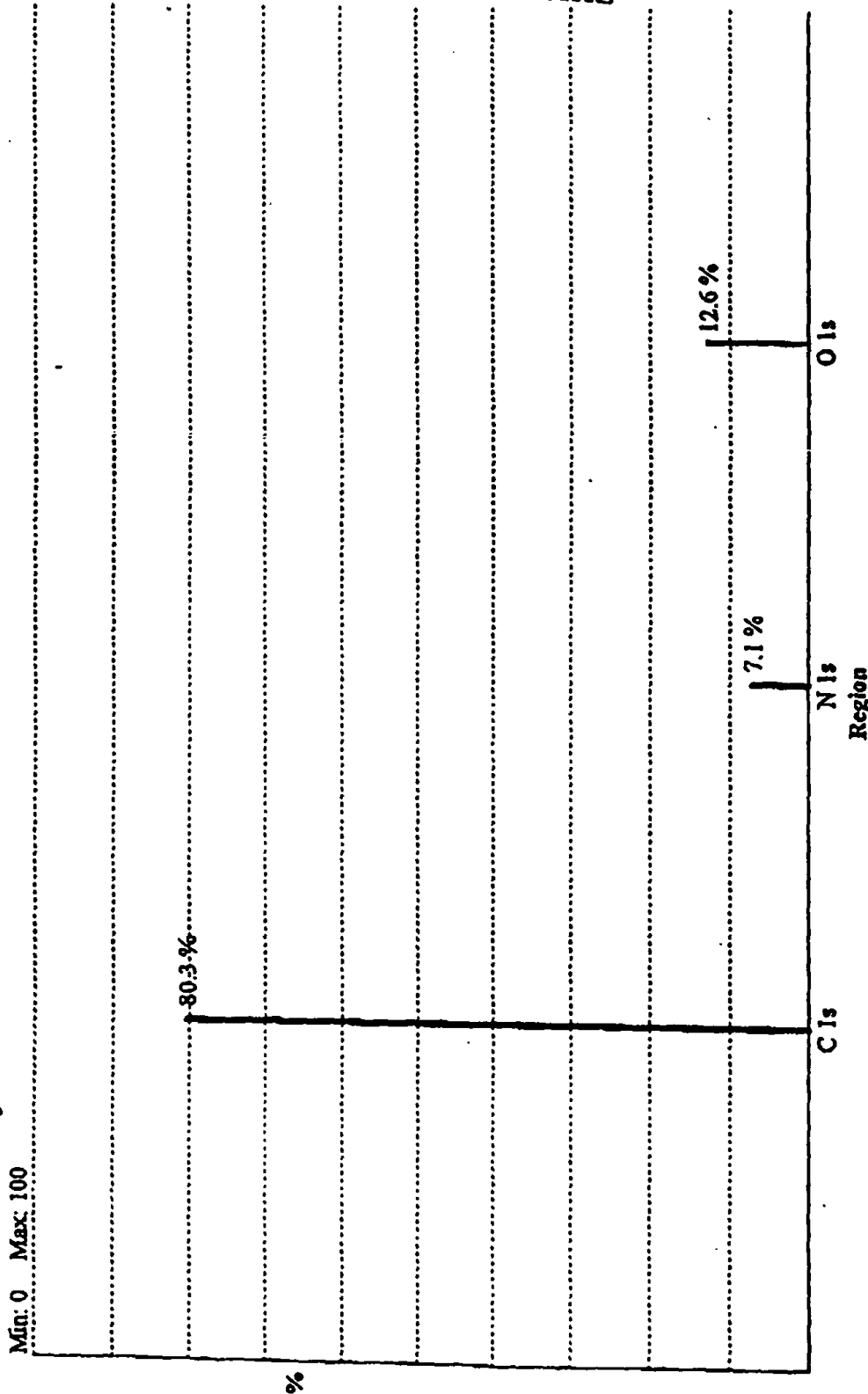
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Katz Analytical Services, Inc.  
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 10 ESCA Multiplex for As-Spun Sample 16B



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TOPECO" 69FF2860

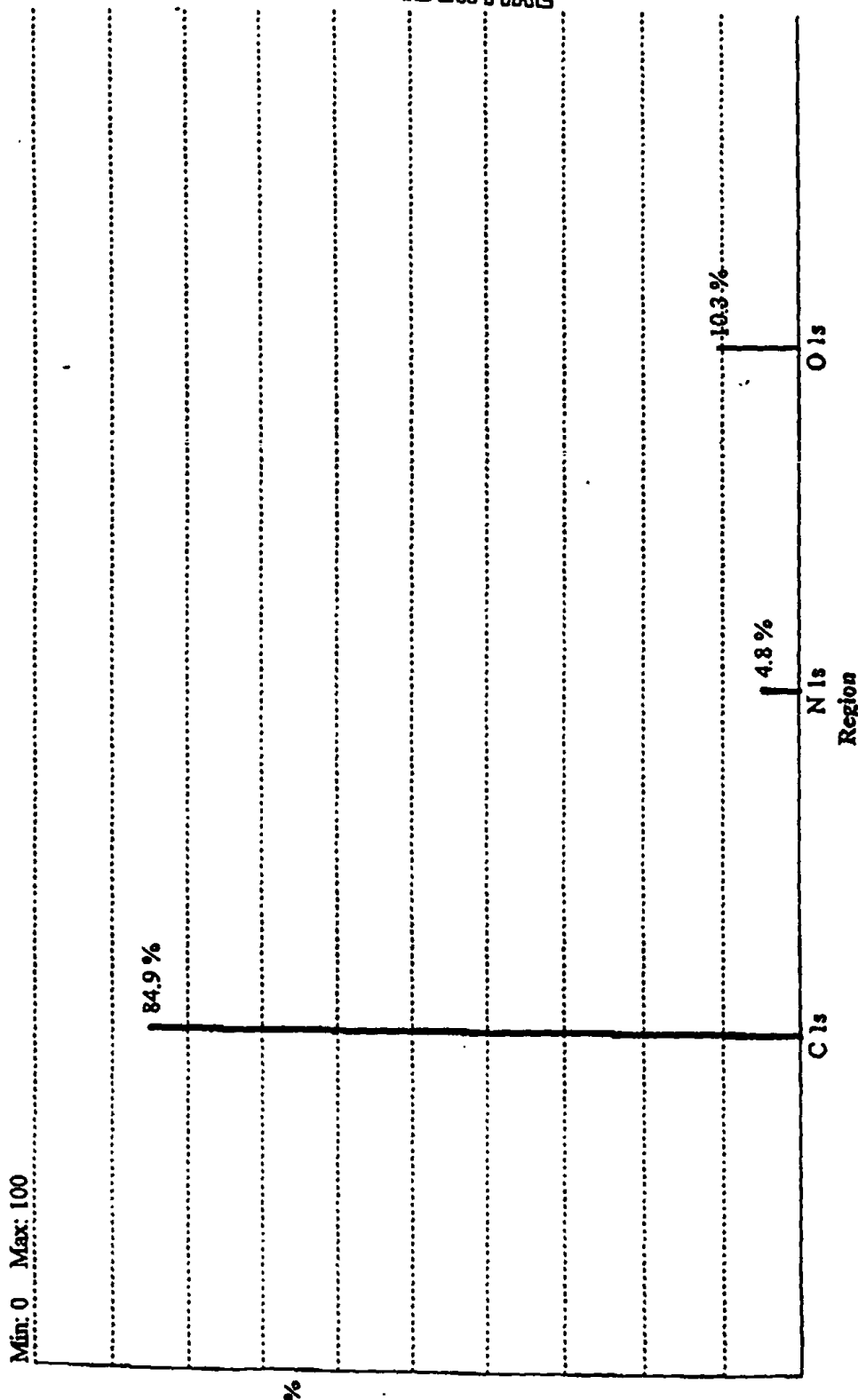
TOTAL P. 11

Katz Analytical Services, Inc.  
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 1 ESCA Multiplex for Heat-Treated Sample 6B



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FOI#50" 69T 2860

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# UltraWeb Long Sock

October 26, 1993

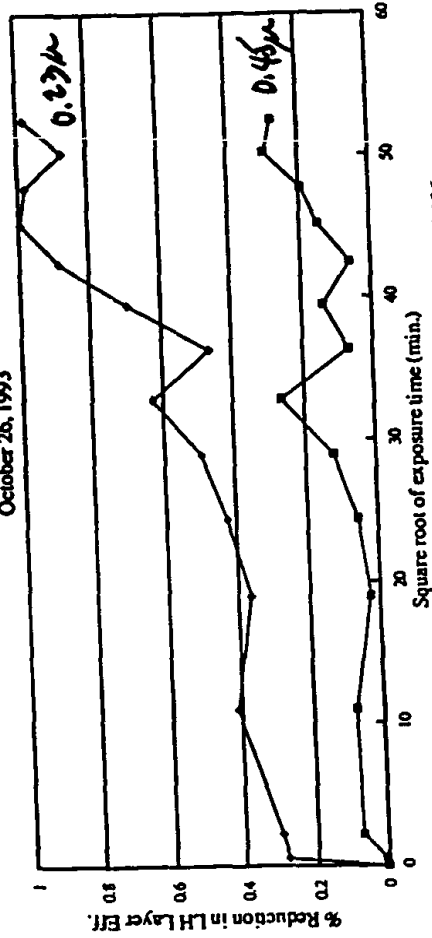


Fig 12

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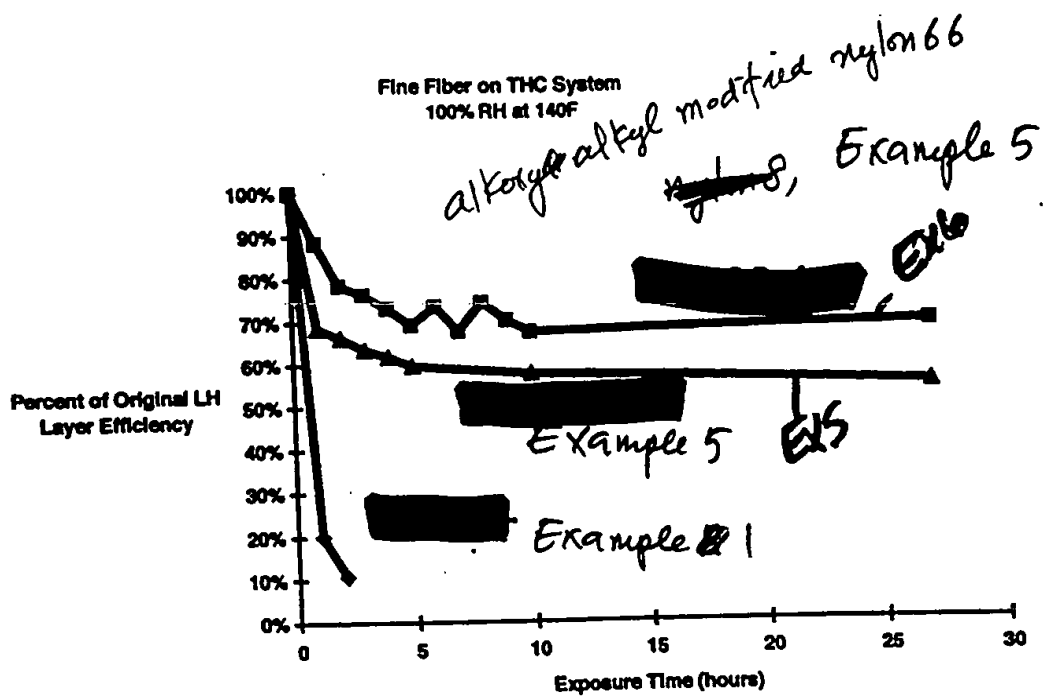


Fig. 13

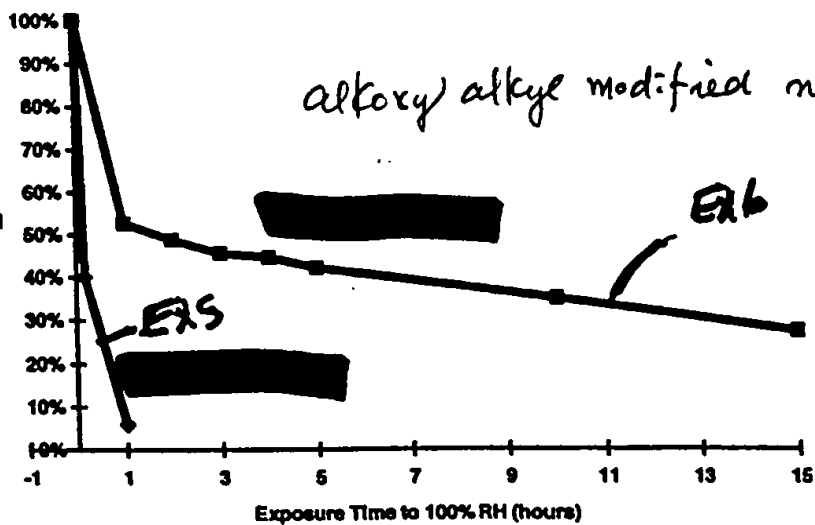
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FL 14

09871169-053101  
+7  
TOTAL

Fine Fiber on the THC System  
160 F at 100% RH

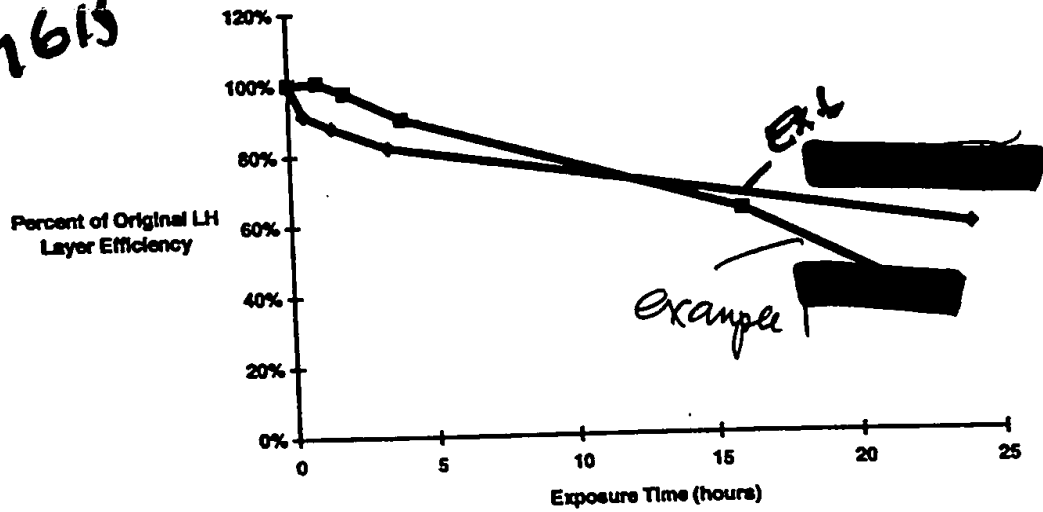
Percent of Original LH  
Layer Efficiency



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F1615

Fine Fiber on THC System  
250F, ~ 0% RH

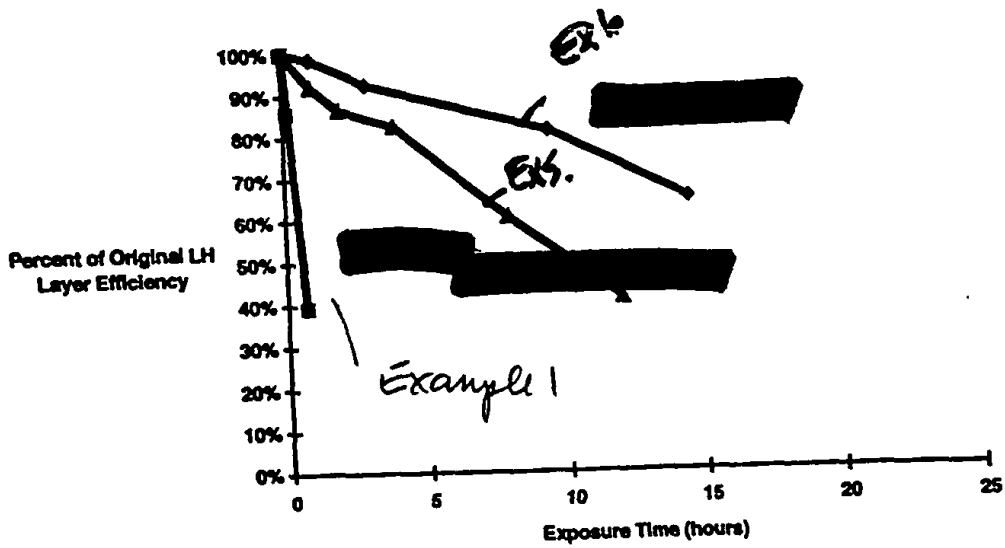


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Fig 16

Fine Fiber on THC System  
300F, - 0% RH



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TOTESTO" 59T2360  
12 MeH

Sample: 1191-19C-6

Size: 9.1500 mg

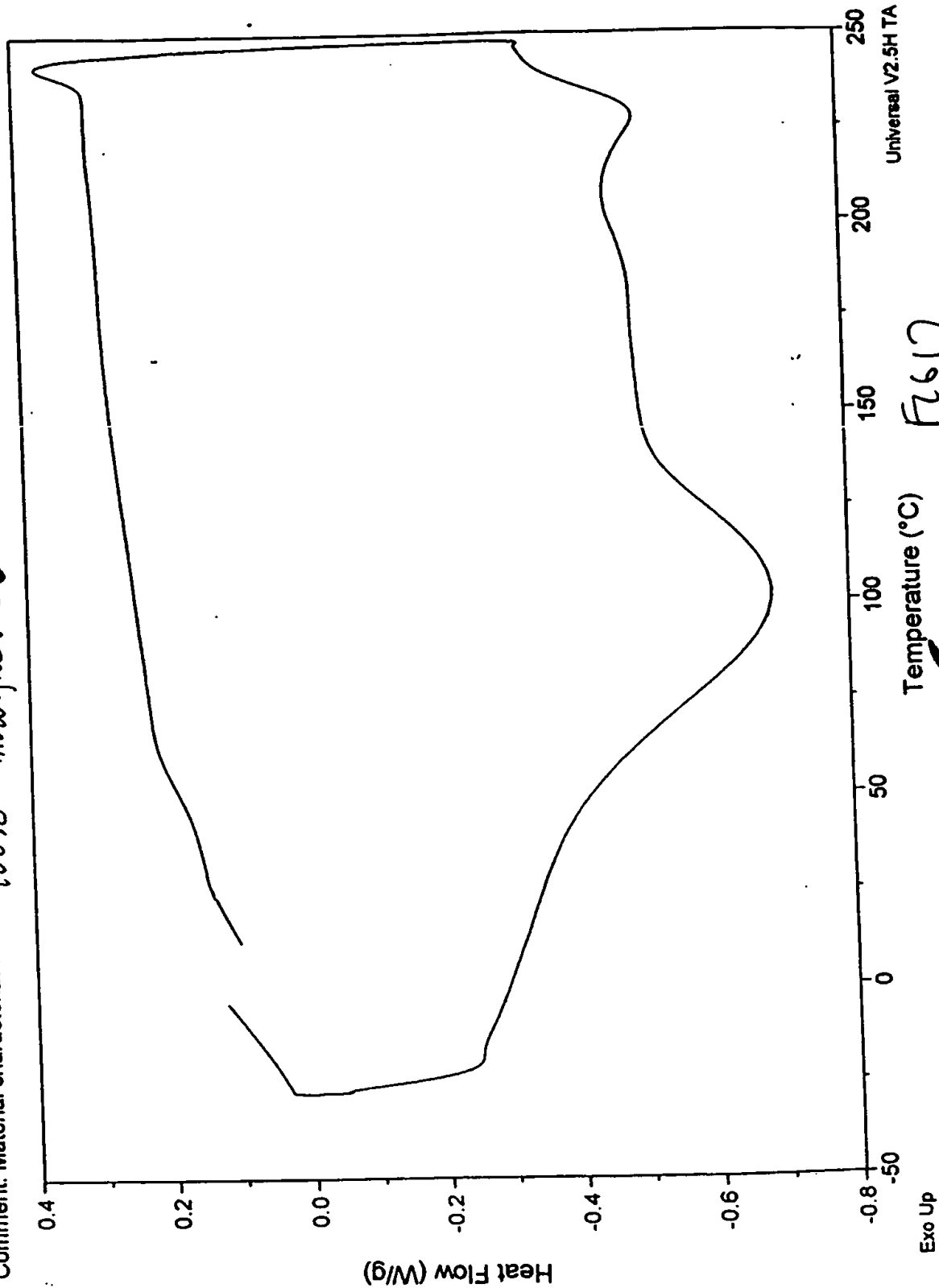
Method: Polymer Samples

Comment: Material characterization

DSC nylon

100% modified 66

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FOR "59T2860"

2nd Melt  
DSC

Sample: 1191-19C-6

Size: 9.1500 mg

Method: Polymer Samples

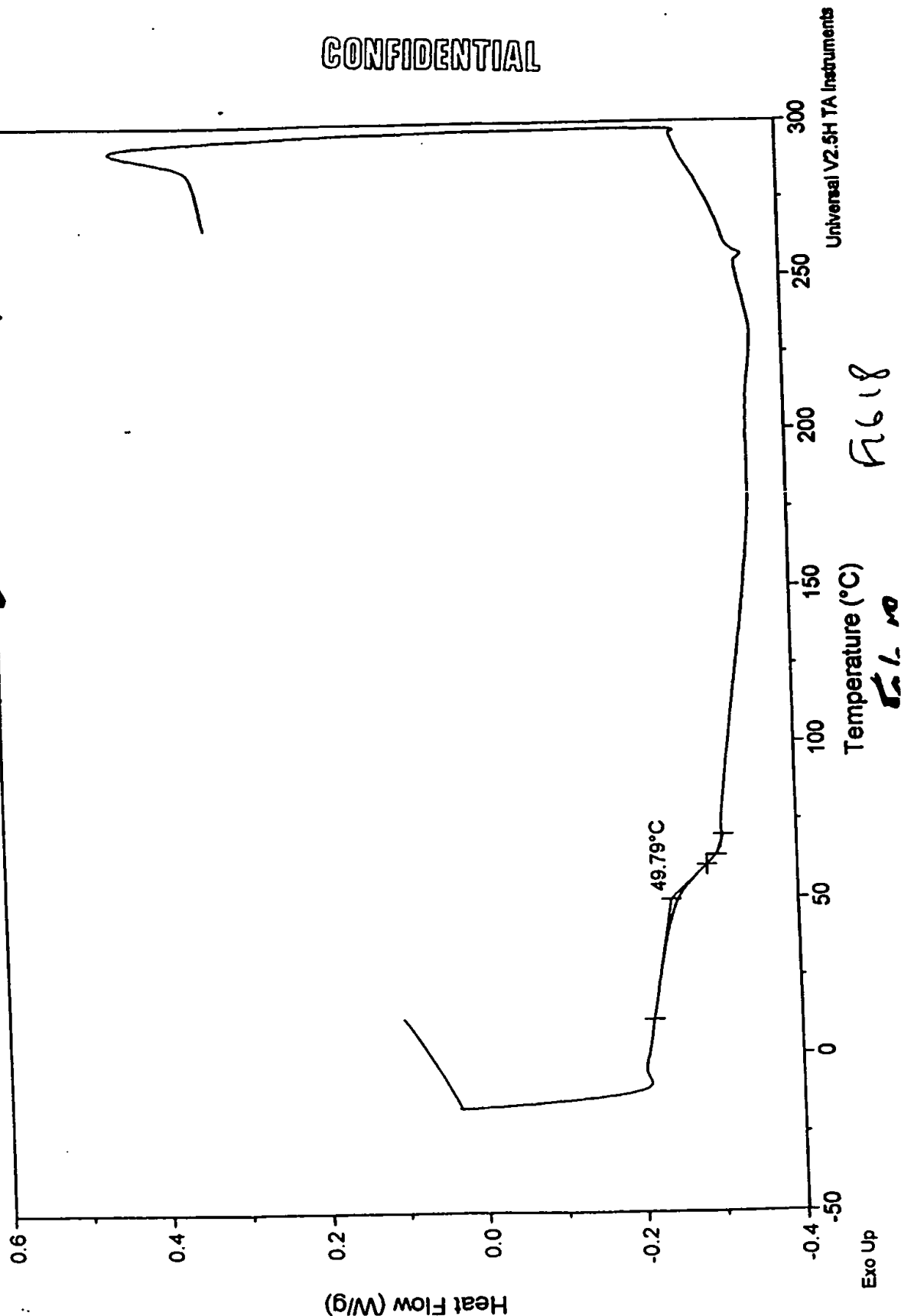
Comment: Material characterization

nylon

100% modified

66 -- After Fully Cross-Linked

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FOR ESO 637 FEB 50

Sample: 1191-19C-7

Size: 9.8400 mg

Method: Polymer Samples

Comment: Material characterization

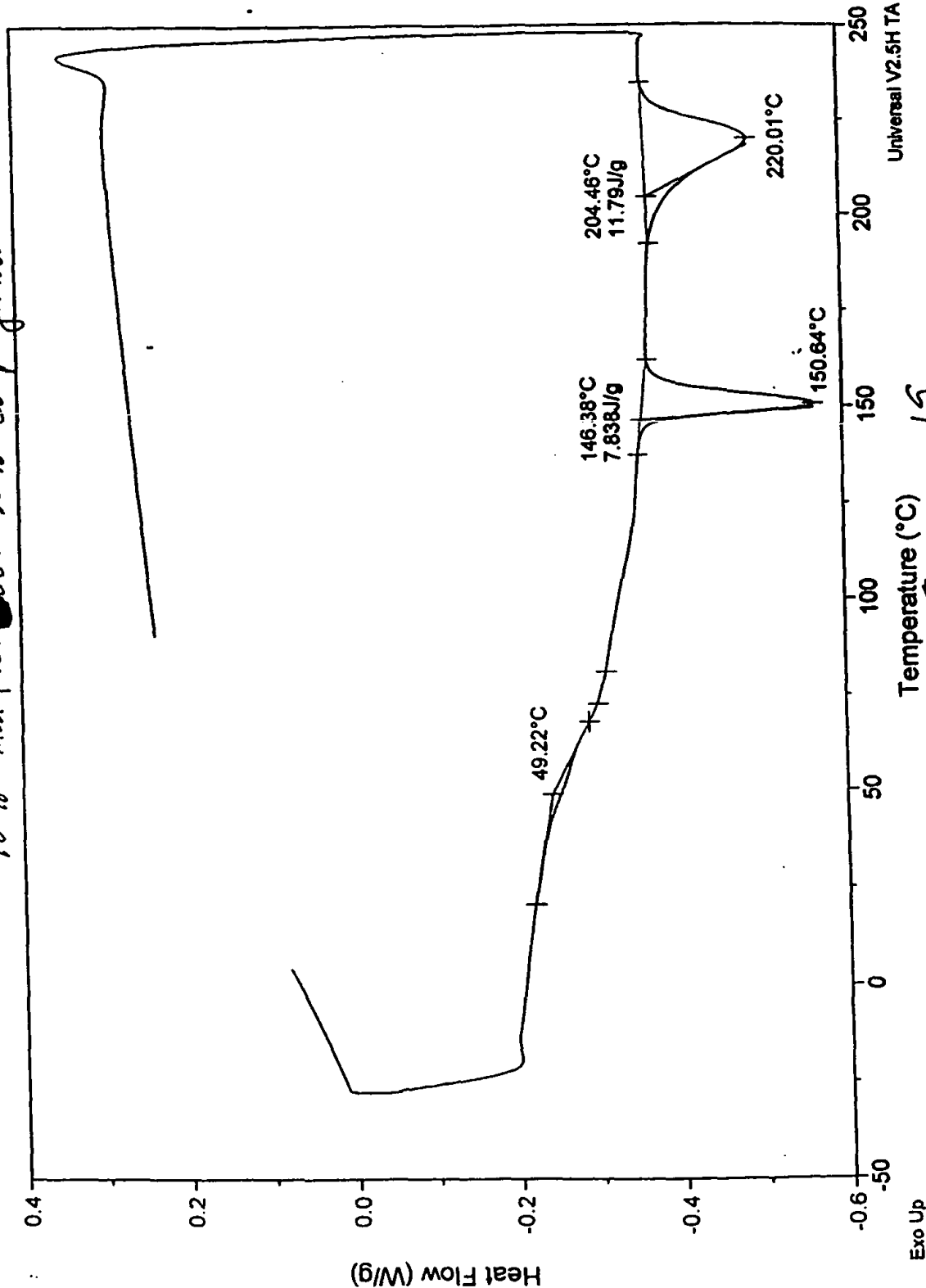
Example 6

1st Melt

DSC

mln

70% mol-fail 66: 30% co-polyamide



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Universal V2.5H TA Instruments

FOI 6974860

Sample 6 2nd melt DSC

Sample: 1191-19C-7

Size: 9.8400 mg

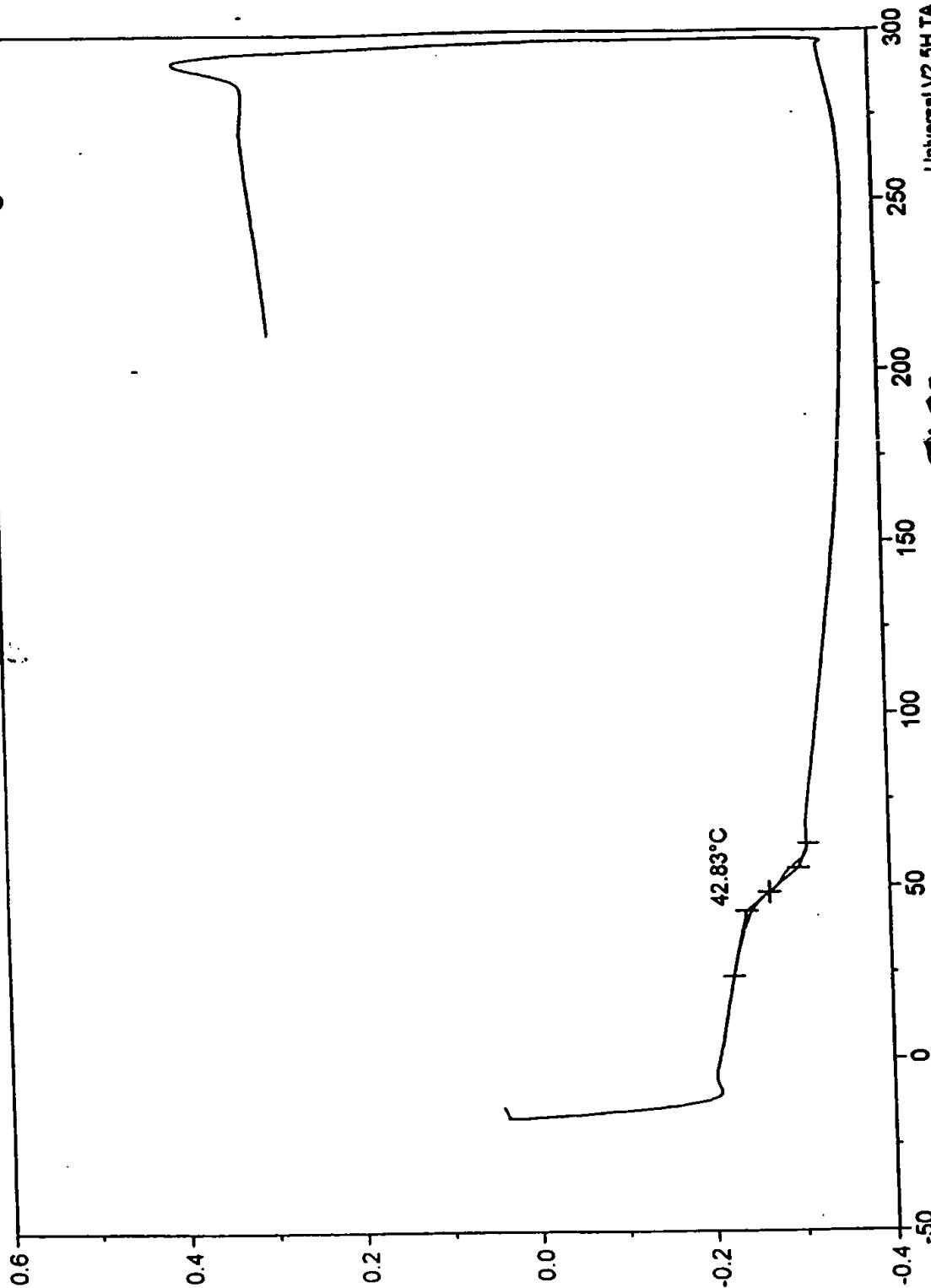
Method: Polymer Samples

Comment: Material characterization

70:30

after Full Cross-linking

Heat Flow (W/g)



Universal V2.5H TA Instruments

File 20

Exo Up

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